### Product Details

<table>
<thead>
<tr>
<th>Description:</th>
<th>PURIFIED MOUSE NERVE GROWTH FACTOR 2.5S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>NERVE GROWTH FACTOR 2.5S</td>
</tr>
<tr>
<td>Other names:</td>
<td>NGF BETA</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Purified Protein</td>
</tr>
<tr>
<td>Quantity:</td>
<td>1 mg</td>
</tr>
</tbody>
</table>

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Functional Assays</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species**

Mouse

**Species Cross Reactivity**

Reacts with: Rat

N.B. Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified natural murine nerve growth factor - lyophilized

**Reconstitution**

Reconstitute with 1.0 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

**Preparation**

Murine nerve growth factor is prepared from the submaxillary glands of mice by sephadex and subsequent cellulose chromatography ([Bocchini and Angeletti 1969](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1875089/)).

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

None present

**Approx. Protein Concentrations**

1.0mg/ml

**External Database Links**

UniProt: [P01139](https://www.uniprot.org/uniprot/P01139)  Related reagents
**Product Information**

**Purified Mouse Nerve Growth Factor 2.5S** is prepared from mouse submaxillary glands (Bocchini and Angeletti 1969) and has an apparent molecular mass of ~30 kDa. Nerve growth factor has a variety of effects on the growth and development of sensory and sympathetic neurons. In the peripheral nervous system, NGF is required for the development and maintenance of sympathetic nerve cells that use catecholamine neurotransmitters.

Purified Mouse Nerve Growth Factor 2.5S has been used to demonstrate the importance of NGF in regulation of neuronal function through the up-regulation of the transcription factor NFAT (Nuclear Factor of Activated T-cells) via activation of the PI3K/Akt pathway (Kim et al. 2014).

<table>
<thead>
<tr>
<th>Protein Molecular Weight</th>
<th>Approximately 30 kDa</th>
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<tbody>
<tr>
<td>Purity</td>
<td>&gt;98% by SDS PAGE</td>
</tr>
</tbody>
</table>

**References**


**Further Reading**


**Storage**

Prior to reconstitution store at +4°C. Following reconstitution store at -20°C.
This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**
3 months from date of reconstitution

**Health And Safety Information**
Material Safety Datasheet documentation #10302 available at:

**Regulatory**
For research purposes only

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